MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2019/2020

DCS5111 – COMPUTER CONCEPTS & APPLICATIONS

(DIT)

7 MARCH 2020
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS:

1. This Question paper consists of **4 pages.**
2. Answer **ALL** questions in **Section A** on the **OMR sheet.**
3. Answer **ALL** questions in **Section B** in the **Answer Booklet.**

Section A: 10 Multiple Choice Questions (10 marks)

*Instruction: Shade your answers on the **OMR sheet**.*

1. Which of the following is **TRUE** about binary language?
   A. Consists of 0 and 1.
   B. Eight bits is equal to one byte.
   C. Each letter, number and special character consists of a unique combination of eight bits.
   D. All of the above.

2. A _____ are designed to execute a few programs as quickly as possible and perform complex calculation rapidly.
   A. mainframe
   B. supercomputer
   C. embedded computer
   D. smartphone

3. Below are the characteristics of inkjet printer **EXCEPT** _____.
   A. high-quality color printouts
   B. use laser beam and static electricity
   C. cheaper than laser printer
   D. affordable

4. The _____ provides transfer speeds of 10 Gbps.
   A. Thunderbolt
   B. FireWire 800
   C. USB 3.1
   D. USB 2.0

5. When a computer is in _____, it stores all the documents from RAM to hard drive.
   A. hibernate mode
   B. sleep mode
   C. cold boot
   D. warm boot

6. When connected to the Internet, _____ are how computers identify each other.
   A. specific addresses
   B. email addresses
   C. Internet Protocol (IP) addresses
   D. gateway addresses

7. Which of the following is **NOT** social networking site?
   A. Facebook
   B. LinkedIn
   C. Twitter
   D. iTunes

Continued.....

8. Below are the characteristics about webcast **EXCEPT** _____.
   A. webcast is the broadcast of audio or video over the Internet
   B. webcasts are live or one-time events
   C. webcasts include interactive responses
   D. webcasts are updated automatically

9. Which of the following is **FALSE** about guidelines to make online shopping safer?
   A. Shop at well-known and reputable sites.
   B. Check the beginning of the URL changes from "http://" to "https://".
   C. Avoid making online transactions when using public computers.
   D. Switch off firewall.

10. _____ allows you to return to a specific web page without having to remember the address.
   A. Citing
   B. Tagging
   C. Sharing
   D. Bookmarking

Section B: 4 Structured Questions (40 marks)

*Instruction: Write your answers in the **Answer Booklet**.*

Question 1

a) When Jane is working on a slide presentation, she makes use of the template provided in the Microsoft PowerPoint to complete her tasks. Briefly explain how a template can complete her task more efficiently.

(3 marks)

b) Differentiate between full installation and custom installation.

(2 marks)

c) Briefly explain for the following types of user interface:

   i. Command – driven interface (1 mark)
   ii. Menu – driven interface (1 mark)

d) Briefly describe **TWO** tools of system maintenance utilities.

(3 marks)

[TOTAL 10 MARKS]

Continued.....

Question 2

a) When the CPU performs a program instruction, it goes through one process called machine cycle. Briefly explain the steps involved in machine cycle.

(4 marks)

b) State **TWO** characteristics of solid-state drive (SSD).

(1 mark)

c) Differentiate between personal area network (PAN) and home area network (HAN). Give **ONE** example each for PAN and HAN.

(3 marks)

d) Generally, wireless signal is being affected easily as compared with wired network. Briefly explain **TWO** reasons why wireless signals might have decreased its throughput.

(2 marks)

[TOTAL 10 MARKS]

Question 3

a) State **SIX** similar features that can be found in the smartphone and tablet.

(3 marks)

b) Chris realized that the images captured by using compact "point-and-shoot" camera and digital SLR are different. List **FOUR** factors that would affect image quality.

(2 marks)

c) As an IT technician in private company, identify **THREE** symptoms the computer might be affected by the computer virus.

(3 marks)

d) Antivirus software is specifically designed to detect viruses and protect computers and files from harm. List **THREE** main functions and **ONE** example of antivirus software.

(2 marks)

[TOTAL 10 MARKS]

Question 4

a) Problem identification is the first step of the System Development Life Cycle (SDLC). Briefly describe **THREE** actions that are involved in the problem identification phase.

(3 marks)

Continued.....

b) State the difference between compiler and interpreter that are involved in the compilation phase of Program Development Life Cycle (PDLC).

(2 marks)

c) An object-oriented database is a database that stores data in objects rather than in tables. Briefly explain **THREE** advantages of an object-oriented database.

(3 marks)

d) Business intelligence (BI) is the ability to improve business decision making with databases. Give **TWO** functions of using business intelligence.

(2 marks)

[TOTAL 10 MARKS]

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